What is claimed is:

1. An apparatus for sealing a vacuum chamber comprising:

a plurality of long stroke cylinders with a plurality of first piston rods for moving a frame elevator;

a frame elevator mounting the first piston rods, guide stems and at least a short stroke cylinder, wherein another end of each first piston rod is enclosed by the long stroke cylinders for linearly moving the frame elevator along a fixed direction, there is a support frame connected at the other ends of the guide stems, each short stroke cylinder enclosed one end of a second piston rod, the second piston rod is parallel to the guide stems and the first piston rods for moving along a parallel direction of the guide stems, each second piston rod connects through at least a lever , at least a transmitting rod and a connecting rod connected, the lever has a support axis close to the transmitting rod, the support axis is pivoted on the support frame, one end of each lever is pivoted with the second piston rod and the other end of the lever is pivoted with the transmitting rod, each transmitting rod is pivoted with the middle of the connecting rod, the two ends of each connecting rods pivoted with at least a direction-changing mechanism respectively; and

a door pivoting with the direction-changing mechanisms;

when the long stroke cylinders moving the frame elevator to the predetermined position, the short stroke cylinder through the second piston rods, transmitting rods, levers and connecting rods moves the direction-changing mechanisms to make the door linearly move to the vacuum chamber for sealing the vacuum chamber.

2. An apparatus for sealing a vacuum chamber in accordance with claim 1, wherein each direction-changing mechanism comprises a sliding block, a support block and a mounting block, the mounting blocks are mounted on the door, the first ends of the sliding blocks are pivoted with the connecting rods by pivot axes, each pivot axis of the sliding block moves in the corresponding narrow opening on the support frame,

the second ends of the sliding blocks are pivoted with the mounting blocks mounted on the door, the middles of the slide blocks are pivoted with the support blocks, and the other ends of the support blocks are pivoted with the support frame.

3. An apparatus for sealing a vacuum chamber in accordance with claim 1, wherein the support frame includes a fixed across bar for pivoting with the support axis of the lever.

4. An apparatus for sealing a vacuum chamber in accordance with claim 1, further comprising a ring cushion on the door.

5. An apparatus for sealing a vacuum chamber in accordance with claim 1, further comprising a push rod and two second transmitting rods pivoted with the two ends of the push rod between the second piston rod and the levers, wherein the middle of the push rod is pivoted with the second piston rod, and the second transmitting rods are pivoted with the ends of the levers.

6. An apparatus for sealing a vacuum chamber comprising:

a flat shell having an opening;

a door fitted in the shell, the door mounting a plurality of direction-changing mechanisms;

a sealing mechanism including a frame elevator, a support frame and guide stems for fixedly connecting with the frame elevator and the support frame, wherein at least a short stroke cylinder having a second piston rod is fitted on the frame elevator for moving the second piston rod to the predetermined point, the second piston rod drives at least a lever, a transmitting rod and a connecting rod, the support axis of the lever is pivoted on the support frame, the transmitting rod connects with the lever and the middle of the connecting rod, the two ends of the connecting rod are pivoted with the direction-changing mechanisms respectively for moving the door to the opening of the shell; and

an elevating mechanism including a plurality of long stroke cylinders with first piston

rods, wherein the first piston rods connect the frame elevator, the long stroke cylinders drive the first piston rods to the predetermined points for vertically moving the door and the sealing mechanism, and the first piston rods are parallel to the second piston rod.

7. An apparatus for sealing a vacuum chamber in accordance with claim 6, wherein the shell has a guide plate for passing through the guide stems and the second piston rod.

8. An apparatus for sealing a vacuum chamber in accordance with claim 6, wherein each direction-changing mechanism includes a sliding block, a support block and a mounting block, wherein the mounting block is mounted on the door, the first end of the sliding block is pivoted with the connecting rod, the second end of the sliding block is pivoted with the mounting block, the middle of the slide block is pivoted with the support block, and the other end of the support block is pivoted with the support frame.

9. An apparatus for sealing a vacuum chamber in accordance with claim 8, wherein the support frame has a plurality of narrow openings for offering the moving spaces of pivot axes at the first ends of the sliding blocks.

10. An apparatus for sealing a vacuum chamber in accordance with claim 6, wherein the support frame includes a fixed across bar for pivoting the lever.

11. An apparatus for sealing a vacuum chamber in accordance with claim 6, wherein a ring cushion is fitted on the door.

12. An apparatus for sealing a vacuum chamber in accordance with claim 6, further comprising a push rod and two second transmitting rods pivoting the two ends of the push rod between the second piston rod and the levers, wherein the middle of the push rod is pivoted with the second piston rod and the second transmitting rods are pivoted with the ends of the levers.